

# PROPOSED SIGNS

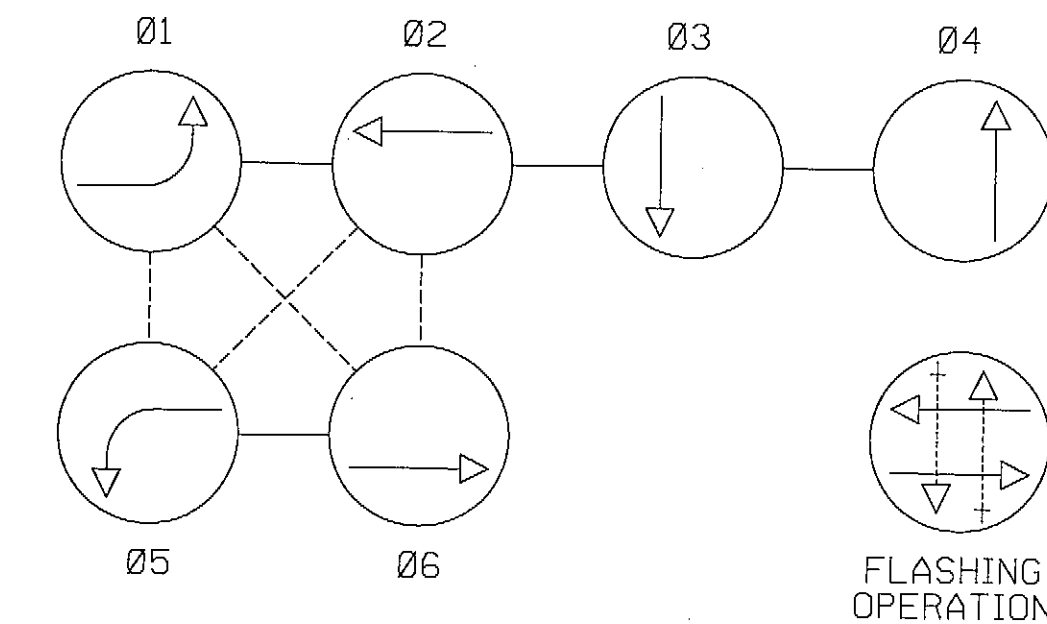
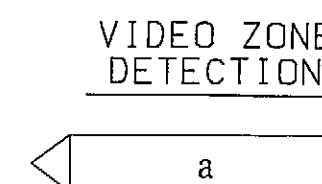
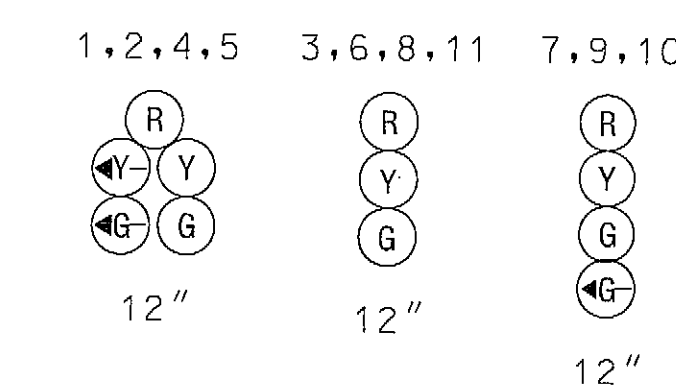
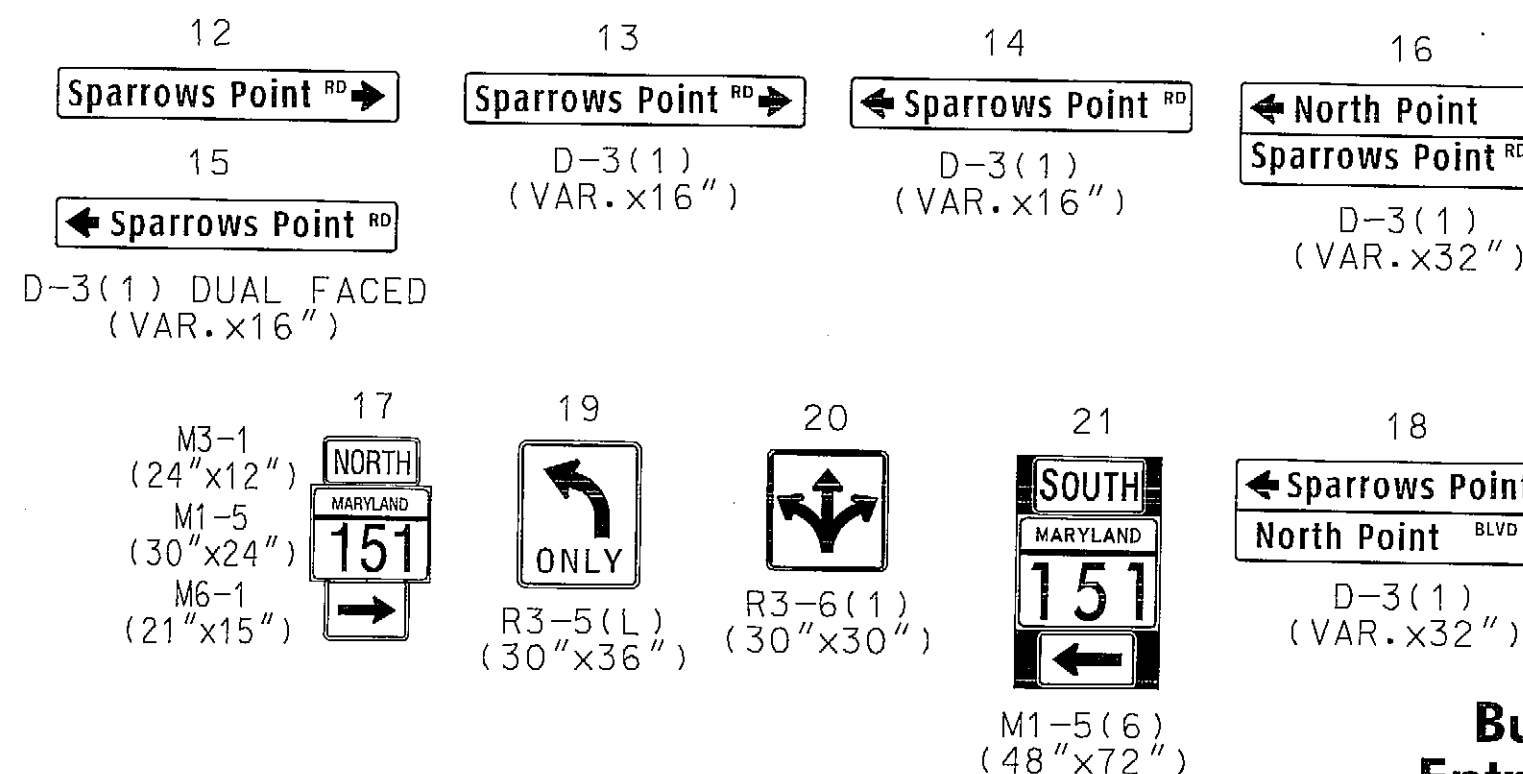
# PROPOSED VIDEO DETECTION CAMERA

# PROPOSED SIGNALS

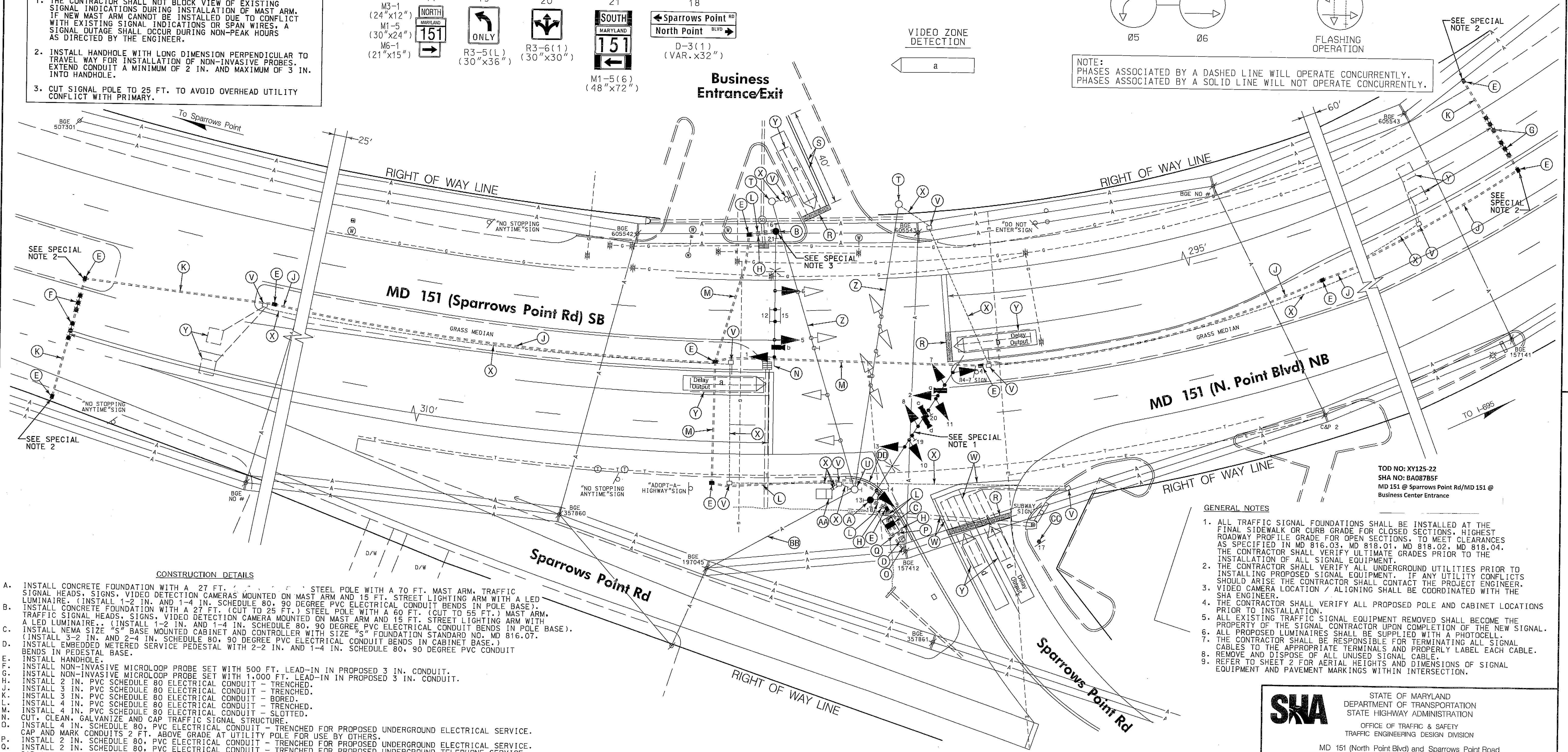
# NEMA PHASING

## SPECIAL NOTES:

1. THE CONTRACTOR SHALL NOT BLOCK VIEW OF EXISTING SIGNAL INDICATIONS DURING INSTALLATION OF MAST ARM. IF NEW MAST ARM CANNOT BE INSTALLED DUE TO CONFLICT WITH EXISTING SIGNAL INDICATIONS OR SPAN WIRES, A SIGNAL OUTAGE SHALL OCCUR DURING NON-PEAK HOURS AS DIRECTED BY THE ENGINEER.
2. INSTALL HANDHOLE WITH LONG DIMENSION PERPENDICULAR TO TRAVEL WAY FOR INSTALLATION OF NON-INVASIVE PROBES. EXTEND CONDUIT A MINIMUM OF 2 IN. AND MAXIMUM OF 3 IN. INTO HANDHOLE.
3. CUT SIGNAL POLE TO 25 FT. TO AVOID OVERHEAD UTILITY CONFLICT WITH PRIMARY.



NOTE:  
PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.  
PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.



## CONSTRUCTION DETAILS

1. INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH A 70 FT. MAST ARM, TRAFFIC SIGNAL HEADS, SIGNS, VIDEO DETECTION CAMERAS MOUNTED ON MAST ARM AND 15 FT. STREET LIGHTING ARM WITH A LED LUMINAIRE. (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN POLE BASE).
2. INSTALL CONCRETE FOUNDATION WITH A 27 FT. (CUT TO 25 FT.) STEEL POLE WITH A 60 FT. (CUT TO 55 FT.) MAST ARM, TRAFFIC SIGNAL HEADS, SIGNS, VIDEO DETECTION CAMERA MOUNTED ON MAST ARM AND 15 FT. STREET LIGHTING ARM WITH A LED LUMINAIRE. (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN POLE BASE).
3. INSTALL NEMA SIZE "S" BASE MOUNTED CABINET AND CONTROLLER WITH SIZE "S" FOUNDATION STANDARD NO. MD 816.07. (INSTALL 3-2 IN. AND 2-4 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN CABINET BASE.)
4. INSTALL EMBEDDED METERED SERVICE PEDESTAL WITH 2-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE PVC CONDUIT BENDS IN PEDESTAL BASE.
5. INSTALL HANDHOLE.
6. INSTALL NON-INVASIVE MICROLOOP PROBE SET WITH 500 FT. LEAD-IN IN PROPOSED 3 IN. CONDUIT.
7. INSTALL NON-INVASIVE MICROLOOP PROBE SET WITH 1,000 FT. LEAD-IN IN PROPOSED 3 IN. CONDUIT.
8. INSTALL 2 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
9. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
10. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - BORED.
11. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
12. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
13. CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE.
14. INSTALL 4 IN. SCHEDULE 80, PVC ELECTRICAL CONDUIT - TRENCHED FOR PROPOSED UNDERGROUND ELECTRICAL SERVICE. CAP AND MARK CONDUITS 2 FT. ABOVE GRADE AT UTILITY POLE FOR USE BY OTHERS.
15. INSTALL 2 IN. SCHEDULE 80, PVC ELECTRICAL CONDUIT - TRENCHED FOR PROPOSED UNDERGROUND ELECTRICAL SERVICE.
16. INSTALL 2 IN. SCHEDULE 80, PVC ELECTRICAL CONDUIT - TRENCHED FOR PROPOSED UNDERGROUND TELEPHONE SERVICE. CAP AND MARK CONDUITS 2 FT. ABOVE GRADE AT UTILITY POLE FOR USE BY OTHERS.
17. INSTALL 24 IN. HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR STOP LINE.
18. INSTALL 5 IN. HEAT APPLIED, YELLOW PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING.
19. REMOVE EXISTING STRAIN POLE. REMOVE FOUNDATION 12 IN. BELOW GRADE AND BACKFILL.
20. REMOVE EXISTING STRAIN POLE AND CONTROL AND DISTRIBUTION EQUIPMENT. REMOVE FOUNDATION 12 IN. BELOW GRADE AND BACKFILL.
21. REMOVE EXISTING HANDHOLE.
22. REMOVE EXISTING PAVEMENT MARKINGS BEYOND PROPOSED STOPLINE.
23. CAP AND ABANDON EXISTING CONDUIT.
24. ABANDON EXISTING DETECTOR. DISCONNECT AND REMOVE LOOP DETECTOR CABLES FROM CONDUITS, HANDHOLES, SIGNAL STRUCTURES AND CONTROLLER.
25. REMOVE EXISTING SPAN WIRE AND ALL ASSOCIATED EQUIPMENT.
26. REMOVE EXISTING BASE MOUNTED CABINET AND CONTROLLER. REMOVE FOUNDATION 12 IN. BELOW GRADE AND BACKFILL.
27. SHA SIGNAL SHOP SHALL BE NOTIFIED TO REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CABINET.
28. EXISTING OVERHEAD ELECTRICAL FEED TO BE REMOVED BY OTHERS.
29. INSTALL M3-1 (24"x12"), M1-5 (30"x24") AND M6-1 (21"x15") SIGNS ON ONE 4 IN. x 6 IN. TREATED WOOD SUPPORT (L=17').
30. INSTALL COMBINATION CONCRETE CURB AND GUTTER (STANDARD NO. MD 620.02 TYPE 'A').

## GEOMETRIC LEGEND

EXISTING  
PROPOSED

## UTILITY LEGEND

SD STORM DRAIN  
G GAS MAIN  
W WATER MAIN  
S SEWER MAIN  
E ELECTRICAL CABLES  
A AERIAL CABLES  
T TELEPHONE CABLES  
F FIBER-OPTIC

**WR&A**

WHITMAN, REQUARDT & ASSOCIATES, LLP  
801 South Caroline Street, Baltimore, Maryland 21201

## APPROVALS

TEAM LEADER  
ASST. DIR. CHIEF  
DIVISION CHIEF  
OFFICE DIRECTOR

## REVISIONS

RECONSTRUCT TRAFFIC SIGNAL  
TIMS NO. L799  
SHA NO. XY1235185  
3/19/2013

**SHA**

STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
MD 151 (North Point Blvd) and Sparrows Point Road  
Dundalk, MD

## SIGNALIZATION PLAN SHEET

SCALE 1" = 20' ADVERTISED DATE 2/8/1973 CONTRACT NO. 851-03  
DESIGNED BY S. Renzi COUNTY Baltimore  
DRAWN BY M. Linardi LOGMILE  
CHECKED BY S. Renzi TMS NO.  
F.A.P. NO. TOD NO.  
TS NO. 859 B DRAWING TSP-1 OF 3 SHEET NO. 1 OF 3

PLOTTED: March 19, 2013  
FILE: N:\31656-220\CADD\pS0-P001\_SparrowsPoint.dgn